

# Dominik Schwudke

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

4,540  
citations

30  
h-index

67  
g-index

100  
ext. papers

5,638  
ext. citations

7.1  
avg. IF

5.24  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 80 | Lipid extraction by methyl-tert-butyl ether for high-throughput lipidomics. <i>Journal of Lipid Research</i> , <b>2008</b> , 49, 1137-46  | 6.3  | 1261      |
| 79 | Lipid profiling by multiple precursor and neutral loss scanning driven by the data-dependent acquisition. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 585-95  | 7.8  | 251       |
| 78 | Top-down lipidomics reveals ether lipid deficiency in blood plasma of hypertensive patients. <i>PLoS ONE</i> , <b>2009</b> , 4, e6261   | 3.7  | 247       |
| 77 | A novel informatics concept for high-throughput shotgun lipidomics based on the molecular fragmentation query language. <i>Genome Biology</i> , <b>2011</b> , 12, R8  | 18.3 | 241       |
| 76 | LipidXplorer: a software for consensual cross-platform lipidomics. <i>PLoS ONE</i> , <b>2012</b> , 7, e29851  | 3.7  | 212       |
| 75 | Top-down lipidomic screens by multivariate analysis of high-resolution survey mass spectra. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 4083-93   | 7.8  | 171       |
| 74 | Shotgun lipidomics on high resolution mass spectrometers. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2011</b> , 3, a004614  | 10.2 | 137       |
| 73 | Lupus nephritis is linked to disease-activity associated expansions and immunity to a gut commensal. <i>Annals of the Rheumatic Diseases</i> , <b>2019</b> , 78, 947-956  | 2.4  | 126       |
| 72 | Bottom-up shotgun lipidomics by higher energy collisional dissociation on LTQ Orbitrap mass spectrometers. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5480-7   | 7.8  | 105       |
| 71 | Shotgun lipidomics by tandem mass spectrometry under data-dependent acquisition control. <i>Methods in Enzymology</i> , <b>2007</b> , 433, 175-91   | 1.7  | 104       |
| 70 | Survival strategies of a sterol auxotroph. <i>Development (Cambridge)</i> , <b>2010</b> , 137, 3675-85  | 6.6  | 98        |
| 69 | Constitutive formation of caveolae in a bacterium. <i>Cell</i> , <b>2012</b> , 150, 752-63  | 56.2 | 94        |
| 68 | Bacterial medium-chain 3-hydroxy fatty acid metabolites trigger immunity in plants. <i>Science</i> , <b>2019</b> , 364, 178-181   | 33.3 | 81        |
| 67 | The obligate predatory Bdellovibrio bacteriovorus possesses a neutral lipid A containing alpha-D-Mannoses that replace phosphate residues: similarities and differences between the lipid As and the lipopolysaccharides of the wild type strain B. bacteriovorus HD100 and its host-independent derivative HI100. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 27502-12 | 5.4  | 74        |
| 66 | Inhibition of Cytosolic Phospholipase A $\beta$ impairs an Early Step of Coronavirus Replication in Cell Culture. <i>Journal of Virology</i> , <b>2018</b> , 92,  | 6.6  | 70        |
| 65 | LET-767 is required for the production of branched chain and long chain fatty acids in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 17550-60   | 5.4  | 64        |
| 64 | Taxonomic studies of predatory bdellovibrios based on 16S rRNA analysis, ribotyping and the hit locus and characterization of isolates from the gut of animals. <i>Systematic and Applied Microbiology</i> , <b>2001</b> , 24, 385-94   | 4.2  | 61        |

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|----|--|------|----|
| 63 | Glycosphingolipid requirements for endosome-to-Golgi transport of Shiga toxin. <i>Traffic</i> , <b>2009</b> , 10, 868-877  | 5.7  | 51 |
| 62 | Ablation of cholesterol biosynthesis in neural stem cells increases their VEGF expression and angiogenesis but causes neuron apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 8350-5 | 11.5 | 47 |
| 61 | Altered lipid homeostasis in Drosophila InsP3 receptor mutants leads to obesity and hyperphagia. <i>DMM Disease Models and Mechanisms</i> , <b>2013</b> , 6, 734-44  | 4.1  | 46 |
| 60 | Central leptin regulates total ceramide content and sterol regulatory element binding protein-1C proteolytic maturation in rat white adipose tissue. <i>Endocrinology</i> , <b>2009</b> , 150, 169-78  | 4.8  | 43 |
| 59 | Structure of sterol aliphatic chains affects yeast cell shape and cell fusion during mating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 4170-5  | 11.5 | 42 |
| 58 | The Leukotriene B and its Receptor BLT1 Act as Critical Drivers of Neutrophil Recruitment in Murine Bullous Pemphigoid-Like Epidermolysis Bullosa Acquisita. <i>Journal of Investigative Dermatology</i> , <b>2017</b> , 137, 1104-1113                    | 4.3  | 40 |
| 57 | Phosphatidylinositol 4-phosphate and phosphatidylinositol 3-phosphate regulate phagolysosome biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 4636-41                               | 11.5 | 39 |
| 56 | Maradolipids: diacyltrehalose glycolipids specific to dauer larva in <i>Caenorhabditis elegans</i> . <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 9430-5   | 16.4 | 39 |
| 55 | Solid-state electrochemical, X-ray and spectroscopic characterization of substitutional solid solutions of iron/copper hexacyanoferrates. <i>Electrochemistry Communications</i> , <b>2000</b> , 2, 301-306  | 5.1  | 35 |
| 54 | Lipid Analysis of Airway Epithelial Cells for Studying Respiratory Diseases. <i>Chromatographia</i> , <b>2015</b> , 78, 403-413  | 2.1  | 33 |
| 53 | Broad-host-range Yersinia phage PY100: genome sequence, proteome analysis of virions, and DNA packaging strategy. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 332-42   | 3.5  | 33 |
| 52 | Complex lipid metabolic remodeling is required for efficient hepatitis C virus replication. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2018</b> , 1863, 1041-1056  | 5    | 32 |
| 51 | Structure of the pneumococcal l,d-carboxypeptidase DacB and pathophysiological effects of disabled cell wall hydrolases DacA and DacB. <i>Molecular Microbiology</i> , <b>2014</b> , 93, 1183-206  | 4.1  | 30 |
| 50 | LipidXplorer: Software for Quantitative Shotgun Lipidomics Compatible with Multiple Mass Spectrometry Platforms. <i>Current Protocols in Bioinformatics</i> , <b>2013</b> , 43, 14.12.1-14.12.30   | 24.2 | 30 |
| 49 | LipidCreator workbench to probe the lipidomic landscape. <i>Nature Communications</i> , <b>2020</b> , 11, 2057   | 17.4 | 26 |
| 48 | Lipoteichoic acid deficiency permits normal growth but impairs virulence of <i>Streptococcus pneumoniae</i> . <i>Nature Communications</i> , <b>2017</b> , 8, 2093   | 17.4 | 26 |
| 47 | Predatory mechanisms of <i>Bdellovibrio</i> and like organisms. <i>Future Microbiology</i> , <b>2007</b> , 2, 63-73  | 2.9  | 26 |
| 46 | Isoniazid@Fe <sub>2</sub> O <sub>3</sub> Nanocontainers and Their Antibacterial Effect on Tuberculosis Mycobacteria. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 12597-601  | 16.4 | 25 |

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|----|--|------|----|
| 45 | Laser capture microdissection coupled with on-column extraction LC-MS(n) enables lipidomics of fluorescently labeled <i>Drosophila</i> neurons. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5345-52  | 7.8  | 23 |
| 44 | Occurrence of an unusual hopanoid-containing lipid A among lipopolysaccharides from <i>Bradyrhizobium</i> species. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 35644-55  | 5.4  | 22 |
| 43 | Lipidomes of lung cancer and tumour-free lung tissues reveal distinct molecular signatures for cancer differentiation, age, inflammation, and pulmonary emphysema. <i>Scientific Reports</i> , <b>2017</b> , 7, 11087  | 4.9  | 20 |
| 42 | Lipidome of narrow-band ultraviolet B irradiated keratinocytes shows apoptotic hallmarks. <i>Experimental Dermatology</i> , <b>2010</b> , 19, e103-10  | 4    | 19 |
| 41 | Lipidomics informatics for life-science. <i>Journal of Biotechnology</i> , <b>2017</b> , 261, 131-136  | 3.7  | 18 |
| 40 | <i>Bdellovibrio bacteriovorus</i> strains produce a novel major outer membrane protein during predacious growth in the periplasm of prey bacteria. <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 2766-73   | 3.5  | 18 |
| 39 | Transcriptional activity of the host-interaction locus and a putative pilin gene of <i>Bdellovibrio bacteriovorus</i> in the predatory life cycle. <i>Current Microbiology</i> , <b>2005</b> , 51, 310-6   | 2.4  | 18 |
| 38 | Unusual Lipid A from a Cold-Adapted Bacterium: Detailed Structural Characterization. <i>ChemBioChem</i> , <b>2017</b> , 18, 1845-1854  | 3.8  | 17 |
| 37 | Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , <b>2021</b> , 12, 4771  | 17.4 | 16 |
| 36 | Lipoteichoic acid of <i>Streptococcus oralis</i> Uo5: a novel biochemical structure comprising an unusual phosphorylcholine substitution pattern compared to <i>Streptococcus pneumoniae</i> . <i>Scientific Reports</i> , <b>2015</b> , 5, 16718                        | 4.9  | 15 |
| 35 | siRNA screening reveals JNK2 as an evolutionary conserved regulator of triglyceride homeostasis. <i>Journal of Lipid Research</i> , <b>2008</b> , 49, 2427-40  | 6.3  | 15 |
| 34 | The interaction of Prussian blue and dissolved hexacyanoferrate ions with goethite ( $\alpha$ -FeOOH) studied to assess the chemical stability and physical mobility of Prussian blue in soils. <i>Ecotoxicology and Environmental Safety</i> , <b>2001</b> , 49, 245-54 | 7    | 15 |
| 33 | Shotgun Lipidomics Approach for Clinical Samples. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1730, 163-174  | 1.4  | 14 |
| 32 | Structural analysis and immunostimulatory potency of lipoteichoic acids isolated from three serotype 2 strains. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 12011-12025  | 5.4  | 13 |
| 31 | Ceramides And Stress Signalling Intersect With Autophagic Defects In Neurodegenerative <i>Drosophila</i> blue cheese (bchs) Mutants. <i>Scientific Reports</i> , <b>2015</b> , 5, 15926  | 4.9  | 13 |
| 30 | Perspective for Precision Medicine for Tuberculosis. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 566608   | 8.4  | 12 |
| 29 | Changes in Visceral Adipose Tissue Plasma Membrane Lipid Composition in Old Rats Are Associated With Adipocyte Hypertrophy With Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2018</b> , 73, 1139-1146                  | 6.4  | 11 |
| 28 | Structural studies of the lipopolysaccharide from the fish pathogen <i>Aeromonas veronii</i> strain Bs19, serotype O16. <i>Marine Drugs</i> , <b>2014</b> , 12, 1298-316   | 6    | 11 |

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|----|--|------|----|
| 27 | Lipid metabolic perturbation is an early-onset phenotype in adult mutants: a model for lysosomal storage disorders. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 3728-3740   | 3.5  | 10 |
| 26 | Isoniazid@Fe <sub>2</sub> O <sub>3</sub> -Nanocontainer mit antibakterieller Wirkung auf Tuberkulose-Mykobakterien. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 12786-12791  | 3.6  | 9  |
| 25 | The LUX Score: A Metric for Lipidome Homology. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004511  | 5    | 9  |
| 24 | Characterization of outer membrane protein fractions of Bdellovibrionales. <i>FEMS Microbiology Letters</i> , <b>2005</b> , 243, 211-7   | 2.9  | 9  |
| 23 | A saposin deficiency model in Drosophila: Lysosomal storage, progressive neurodegeneration and sensory physiological decline. <i>Neurobiology of Disease</i> , <b>2017</b> , 98, 77-87   | 7.5  | 8  |
| 22 | Total Synthesis of Five Lipoteichoic acids of Clostridium difficile. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 13511-6   | 4.8  | 8  |
| 21 | Co-Inactivation of GlnR and CodY Regulators Impacts Pneumococcal Cell Wall Physiology. <i>PLoS ONE</i> , <b>2015</b> , 10, e0123702  | 3.7  | 7  |
| 20 | PLD3 and spinocerebellar ataxia. <i>Brain</i> , <b>2018</b> , 141, e78   | 11.2 | 7  |
| 19 | Attachment of phosphorylcholine residues to pneumococcal teichoic acids and modification of substitution patterns by the phosphorylcholine esterase. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 10620-10629   | 5.4  | 7  |
| 18 | Substrate structure-activity relationship reveals a limited lipopolysaccharide chemotype range for intestinal alkaline phosphatase. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 19405-19423                    | 5.4  | 6  |
| 17 | Blocking IL-10 receptor signaling ameliorates Mycobacterium tuberculosis infection during influenza-induced exacerbation. <i>JCI Insight</i> , <b>2019</b> , 5,  | 9.9  | 6  |
| 16 | Inactivation of Bacteria by Irradiation to Investigate the Interaction with Antimicrobial Peptides. <i>Biophysical Journal</i> , <b>2019</b> , 117, 1805-1819  | 2.9  | 5  |
| 15 | Lipidation of Pneumococcal Antigens Leads to Improved Immunogenicity and Protection. <i>Vaccines</i> , <b>2020</b> , 8,  | 5.3  | 4  |
| 14 | Systematic Analysis of Composition, Interfacial Performance and Effects of Pulmonary Surfactant Preparations on Cellular Uptake and Cytotoxicity of Aerosolized Nanomaterials. <i>Small Science</i> , <b>2021</b> , 1, 2100067 |      | 3  |
| 13 | Software-aided quality control of parallel reaction monitoring based quantitation of lipid mediators. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1037, 168-176  | 6.6  | 2  |
| 12 | Lipid A structural characterization from the LPS of the Siberian psychro-tolerant Psychrobacter arcticus 273-4 grown at low temperature. <i>Extremophiles</i> , <b>2018</b> , 22, 955-963                                      | 3    | 2  |
| 11 | Maradolipids: Diacyltrehalose Glycolipids Specific to Dauer Larva in Caenorhabditis elegans. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 9620-9625   | 3.6  | 2  |
| 10 | WNT6-ACC2-induced accumulation of triacylglycerol rich lipid droplets is exploited by M. tuberculosis  |      | 2  |

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| 9 | WNT6/ACC2-induced storage of triacylglycerols in macrophages is exploited by Mycobacterium tuberculosis. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,   | 15.9 | 2 |
| 8 | Quantification of Phosphatidylinositol Phosphate Species in Purified Membranes. <i>Methods in Enzymology</i> , <b>2017</b> , 587, 271-291  | 1.7  | 1 |
| 7 | Global analysis of putative phospholipases in the malaria parasite Plasmodium falciparum reveals critical factors for parasite proliferation   |      | 1 |
| 6 | Commensal Streptococcus mitis produces two different lipoteichoic acids of type I and type IV. <i>Glycobiology</i> , <b>2021</b> ,   | 5.8  | 1 |
| 5 | Tuberculostearic acid (TSA)-containing phosphatidylinositols as reliable marker to determine Mycobacterium tuberculosis bacterial burden   |      | 1 |
| 4 | LAMP3 deficiency affects surfactant homeostasis in mice. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009619   | 6    | 0 |
| 3 | The human LL-37 peptide exerts antimicrobial activity against Legionella micdadei interacting with membrane phospholipids.. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2022</b> , 159138                         | 5    | 0 |
| 2 | Needs for an Integration of Specific Data Sources and Items - First Insights of a National Survey Within the German Center for Infection Research. <i>Studies in Health Technology and Informatics</i> , <b>2021</b> , 278, 237-244                    | 0.5  |   |
| 1 | Characterization of phospholipid-modified lung surfactant in vitro and in a neonatal ARDS model reveals anti-inflammatory potential and surfactant lipidome signatures. <i>European Journal of Pharmaceutical Sciences</i> , <b>2022</b> , 175, 106216 | 5.1  |   |